

## CLAIMS

### I Claim As My Invention:

1. A pluggable video module (PVM) assembly, comprising:

a housing having a top, a bottom, a front and a back;

5 a locking and release mechanism proximate the front of the PVM for securing the PVM within a host device;

an electrical connector proximate the back of the PVM for electrically connecting the PVM to a host device;

an optical connector proximate the front of the PVM for receiving an optical connector;

10 a key slot on the bottom and proximate the back of the PVM for receiving a key tab from a host device, and thereby allowing the PVM to be inserted into a host receptacle having a key tab.

2. The pluggable video module (PVM) of Claim 1, wherein the optical connector

15 proximate the front includes a duplex optical port.

3. The pluggable video module (PVM) of Claim 1, wherein the optical connector proximate the front includes a transmitting (TX) optical port.

20 4. The pluggable video module (PVM) of Claim 1, wherein the optical connector proximate the front includes a simplex transmitting (TX) optical port.

5. The pluggable video module (PVM) of Claim 1, wherein the optical connector proximate the front includes a dual transmitting (TX) optical port.

5           6. The pluggable video module (PVM) of Claim 1, wherein the optical connector proximate the front includes a receiving (RX) optical port.

7. The pluggable video module (PVM) of Claim 1, wherein the optical connector proximate the front includes a simplex receiving (RX) optical port.

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8. The pluggable video module (PVM) of Claim 1, wherein the optical connector proximate the front includes a dual receiving (RX) optical port.

9. The pluggable video module (PVM) of Claim 1, wherein the optical connector  
15 proximate the front includes a duplex LC connector.

10. The pluggable video module (PVM) of Claim 1, wherein the optical connector proximate the front includes a dual transmit (TX) LC connector.

20           11. The pluggable video module (PVM) of Claim 1, wherein the optical connector proximate the front includes a dual receiving (RX) LC connector.

12. The pluggable video module (PVM) of Claim 1, wherein the optical connector proximate the front includes a simplex transmitting (TX) ST connector.

5           13. The pluggable video module (PVM) of Claim 1, wherein the optical connector proximate the front includes a simplex receiving (RX) ST connector.

14. A pluggable video module (PVM), comprising:  
a housing having a top, a bottom, a front and a back;  
10           a locking and release mechanism proximate the front of the PVM for securing the PVM within a host device;

an electrical connector proximate the back of the PVM for electrically connecting the PVM to a host device;

an electrical connector proximate the front of the PVM for receiving an electrical  
15   connector;

a key slot on the bottom and proximate the back of the PVM for receiving a key tab from a host device, and thereby allowing the PVM to be inserted into a host receptacle having a key tab.

20           15. The pluggable video module (PVM) of Claim 14, wherein the electrical connector proximate the front includes a duplex electrical port.

16. The pluggable video module (PVM) of Claim 14, wherein the electrical connector proximate the front includes a transmitting (TX) electrical port.

5        17. The pluggable video module (PVM) of Claim 14, wherein the electrical connector proximate the front includes a receiving (RX) electrical port.

18. The pluggable video module (PVM) of Claim 14, wherein the electrical connector proximate the front includes a simplex transmitting (TX) electrical port.

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19. The pluggable video module (PVM) of Claim 14, wherein the electrical connector proximate the front includes a dual transmitting (RX) electrical port.

20. The pluggable video module (PVM) of Claim 14, wherein the electrical connector  
15 proximate the front includes a simplex receiving (RX) electrical port.

21. The pluggable video module (PVM) of Claim 14, wherein the electrical connector proximate the front includes a dual receiving (RX) electrical port.

20        22. The pluggable video module (PVM) of Claim 14, wherein the electrical connector proximate the front includes a simplex TX Mini-BNC electrical port.

23. The pluggable video module (PVM) of Claim 14, wherein the electrical connector proximate the front includes a simplex RX Mini-BNC electrical port.

5        24. A host cage for receiving a pluggable video module (PVM), comprising:  
a top, a bottom, opposing sides, a front, and a back;  
an opening proximate the front for receiving a PVM; and  
a key tab extending beyond an inside surface on the bottom of the host cage.

10       25. A pluggable video module (PVM) assembly, comprising:  
a cage for receiving a pluggable video module (PVM);  
a key tab extending beyond an inside surface on the bottom of the cage;  
a PVM having a housing including a top, a bottom, a front and a back; and  
a key slot on the bottom and proximate the back of the PVM sized for receiving the key  
15    tab in the cage, and thereby allowing the PVM to be installed into the cage.

26. A pluggable video module (PVM), comprising:  
a housing having a top, a bottom, a front and a back;  
a locking and release mechanism proximate the front of the PVM for securing the PVM  
20    within a host device;  
an electrical connector proximate the back of the PVM for electrically connecting the

PVM to a host device;

an one optical connector proximate the front of the PVM;

a key slot on the bottom and proximate the back of the PVM for receiving a key tab from  
a host device, and thereby allowing the PVM to be installed into a host receptacle having a key  
5 tab; and

pathological circuitry for handling pathological conditions associated with digital video  
signals.

27. A pluggable video module (PVM), comprising:

10 a housing having a top, a bottom, a front and a back;

a locking and release mechanism proximate the front of the PVM for securing the PVM  
within a host device;

an electrical connector proximate the back of the PVM for electrically connecting the  
PVM to a host device;

15 an electrical connector proximate the front of the PVM for receiving an electrical  
connector;

a key slot on the bottom and proximate the back of the PVM for receiving a key tab from  
a host device, and thereby allowing the PVM to be inserted into a host receptacle having a key  
tab; and

20 pathological circuitry for handling pathological conditions associated with digital video  
signals.